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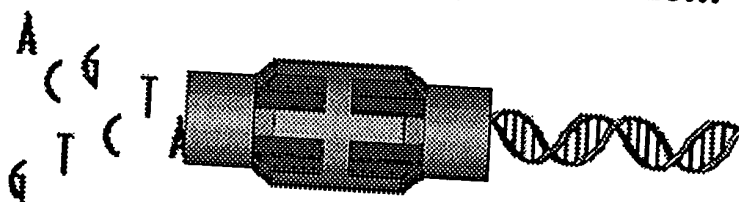
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SOLID PHASE SCIENCES

Supports for Oligonucleotide Synthesis

The Shape of Things to Come...



- DNA Synthesis Columns for ABI/Perseptive Synthesizers
- DMT-Nucleoside CPG in Bulk (grams to kilograms)
- Special Programs for Core Labs

SPS DNA synthesis columns are the result of a complete reengineering of DNA synthesis column design. The low dead volume and excellent wash out characteristics of SPS columns provide ultimate synthesis performance at 1 micromole, 200 nanomole, and 50 nanomole scales. Although performance was the critical goal of our column design, we also understand the need to deliver our product to our customers at a very attractive price. To achieve this goal our column was designed to be assembled with minimal labor cost. And since we manufacture our own derivatized CPG, we are able to pass our low production costs on to you. The end result is that we supply superior columns at highly competitive prices.

Advantages of SPS columns

- Low aspect ratio of column height to diameter assures rapid mass transfer, rapid addition and removal of reagents, and efficient washing.
- All internal areas are uniformly exposed to reagents with no regions outside of the direct fluid path.
- Column internal volume is significantly lower than with other designs, leading to lower amidite dilution and better coupling efficiency.

- The low cost of SPS columns minimizes your DNA synthesis costs.
- Performance of SPS columns equals or exceeds that of instrument manufacturers.

Compatibility

SPS columns are compatible with any DNA synthesizer using luer connections, including ABI and Millipore/Biosearch/Perseptive Biosystems. While our columns are compatible on such instruments without modification, the user should insure the flow rates are within the manufacturer's specification.

Synthesis Supports

SPS manufactures the derivatized supports used in its synthesis columns. Our proprietary protocols result in supports with superior coupling efficiency and oligomer quality.

Specialty Columns

In addition to standard DNA synthesis columns, SPS offers a complete range of specialized synthesis columns. For instance, our inventory includes 3'-DMT-nucleoside supports useful for making "inverse linkage" bonds. Additionally, we offer DMT-diethylsulfonyl supports which allow the preparation of 3'-phosphorylated oligomers. RNA synthesis columns are available as well. Other specialty supports are available at your request.

Pack Your Own Columns

Empty column bodies and end frits are available to those who wish to prepare columns with their own custom solid supports. By using combinations of end frits the bed volume is variable up to 100 microliters.

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